



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,285	01/16/2002	Jae Sung Kim	RPL-0025	2364

34610 7590 08/28/2003

FLESHNER & KIM, LLP  
P.O. BOX 221200  
CHANTILLY, VA 20153

EXAMINER

VO, TUYET THI

ART UNIT

PAPER NUMBER

2821

DATE MAILED: 08/28/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**SUPPLEMENTAL**  
**Office Action Summary**

Applicant N .

10/046,285

Applicant(s)

KIM ET AL.

Examiner

Tuyet Vo

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 15 August 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2 and 5-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5 and 7 is/are allowed.
- 6) ☒ Claim(s) 1,2,6,9-11 and 13 is/are rejected.
- 7) ☒ Claim(s) 8-12 and 14-20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 May 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All   b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## **SUPPLEMENTAL DETAILED ACTION**

### ***Remarks***

The supplemental Office Action has been issued and mailed to the applicant due to lack of providing ref 155642 (JP Pub. 2001-155642) in the previous Office Action, therefore, a new response period is restarted from the date sending this Office Action.

### ***Claim Objections***

1. Claims 1, 9 and 14 are objected to because of the following typographical errors:
2. Claim 1, line 4, "hte" should be --the--, therefore, such insertion is suggested.
3. Claims 9 and 14, line 5 and 11, "cell" should be in plural forms for consistency. An insertion include this correction is suggested.

### ***Drawings***

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, **an interval between bridges in the discharge cell corresponding to the R fluorescent layer is larger than an interval between bridges in the discharge cell corresponding to the B fluorescent layer as must be shown** or the feature(s) canceled from the claim 8. No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2821

6. Claims 1, 2 and 9-11 are rejected under 35 U.S.C. 102(b) as being anticipated by the applicant's admitted prior art illustrated in figures 1-4.

Regarding claims 1 and 2, the admitted prior art shown in figures 1- 4 clearly discloses the claimed invention for example, barriers (21) are arranged parallel to one another between address electrodes (A); pairs of the barriers corresponding to two fluorescent layers of the R, G and B fluorescent layers are in form of a stripe (Fig. 4) and a B fluorescent layer includes bridges (21') extending in a longitudinal direction of the sustaining electrodes as a discharge cell unit.

Regarding claims 9-11, the admitted prior art shown in figure 4 clearly discloses plasma display device comprising:

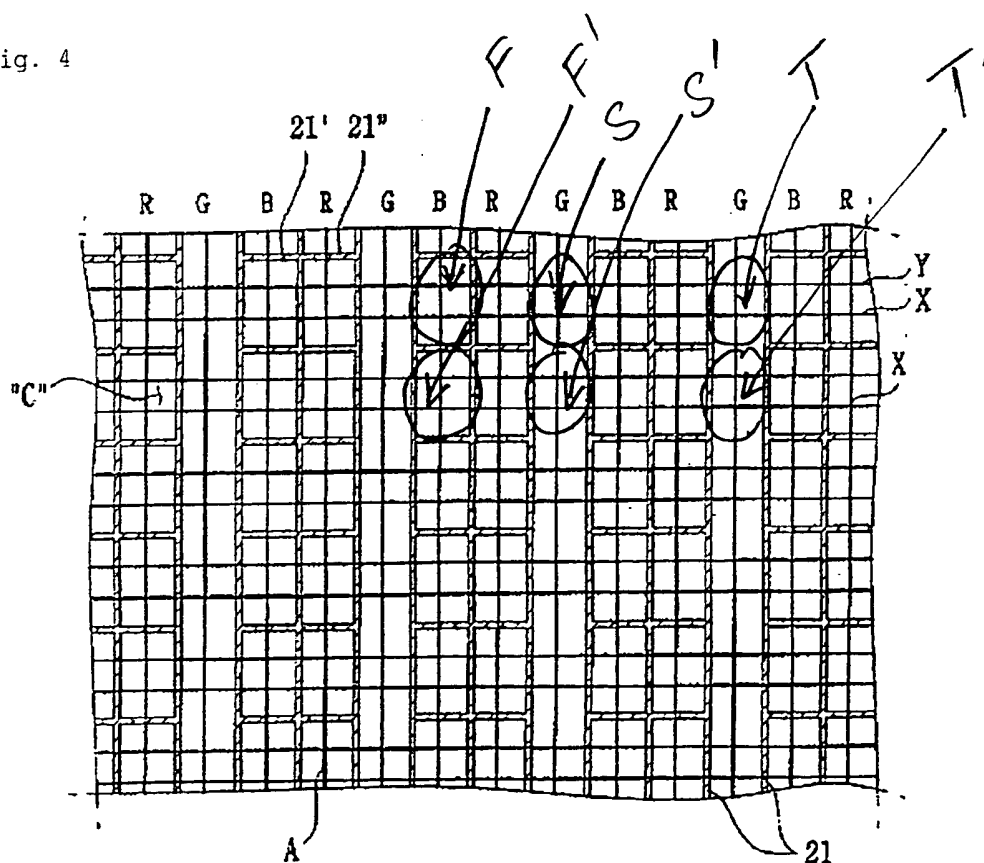
three sets of discharge cells are separated by barriers;

each cell of first blue discharge cells (F, marked by examiner) is separated from another adjacent cell of the first blue discharge cells (F', marked by examiner);

each cell of second set of discharge cells (S, marked by examiner) is separated from another adjacent cell of the second discharge cells (S', marked by examiner); and

each cell of third set of discharge cells (T, marked by examiner) is separated from another adjacent cell of the first blue discharge cell (T', marked by examiner).

Fig. 4



*Claim Rejections - 35 USC § 103*

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 6 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art as applied to claim 1 above, and further in view of ref 155642 (JP Pub. 2001-155642).

The admitted prior art discloses the claim invention as noted above except for indicating the bridge is lower than the stripe type barrier.

Ref 155642 discloses a plasma display panel comprising bridges (2) and stripe type barriers (1), wherein the bridges type barrier is lower than that of the stripes.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the bridge and stripe in different levels as taught by ref 155642 into the admitted prior art in order to ease enhance the exhausting process of removing residuals gas so as to increase brightness of image.

*Argument*

Insofar, applicant has failed to explain how various amendments applied to the claims obviate the rejection applied based upon the admitted prior art. Moreover, applicant's comment suggesting the distinction between "conventional art" and "prior art" has been noted with disagreement. Insofar, applicant has failed to offer evidence that would preclude the interpretation of figures 1 and 4 as prior art.

The same anticipatory rejection is now applied to the remaining claims.

*Allowable Subject Matter*

9. Claims 5 and 7 are allowed.
10. Claim 12 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 14-20 are objected as above and would be allowable if rewritten in independent form with correction as requested.
11. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to disclose an interval between bridges in the discharge cell corresponding to the B fluorescent layer is larger than an interval between bridges in the discharge cell corresponding to the R fluorescent layer as required in claim 5 or a discharge red light as well as the discharge green light are designated for the second set and third set of discharge cells respectively as required in claim 12. The prior art also lacks to provide the surface area of each cell of a first set of discharge cells is larger than that of the second set of discharge cells as required in claim 14.

*Correspondence*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuyet Vo whose telephone number is 703 306 5497. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 703 308 4856. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308 7722 for regular communications and 703 308 7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

Application/Control Number: 10/046,285

Page 6

Art Unit: 2821

A handwritten signature in cursive script, appearing to read 'Tuyet Vo', written over a horizontal line.

Tuyet Vo

August 16, 2003